

ABSTRACT

The present invention of “small-angled, specifically-positioned and specifically-orientated light emitting device of backlight module of liquid crystal display” is related to LCD backlight module which emitting light beams from specified positions, with each emitted light beam limited to small angle range, and with orientations of that angle range of each emitted beam including orientation pointing to specified opening of LCD substrate or with such and vertical to emitting face of light guiding plate, and with distance of central line of neighboring emitted light beams nearing distance of neighboring LCD substrate openings, and with no light being emitted between two neighboring emitted light beams, in comparison with that conventional LCD backlight module emits light wholly, continuously and evenly from light emitting face of light guiding plate. Large amount of energy is wasted in the conventional backlight module owing to its illumination on the opaque part of LCD substrate such as common electrode and black matrix. As the present invention emits light beams from specified positions, with each beam limited to small angle and pointing to each corresponding opening of LCD substrate, energy can be used efficiently; brightness can be raised; display quality can be promoted; electricity energy consumption can be lowered down, and life of battery can be postponed.